UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,728	01/19/2005	Jeppe Bastholm	66383-033-7	2568
25269 DYKEMA GOS	7590 05/14/200 SSETT PLLC	EXAMINER		
	QUARE, THIRD FLOO	GLASS, ERICK DAVID		
1300 I STREET WASHINGTO	*		ART UNIT	PAPER NUMBER
			2837	
		MAIL DATE	DELIVERY MODE	
			05/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		A	Application No.	Applicant(s)	Applicant(s)			
			10/511,728	BASTHOLM,	BASTHOLM, JEPPE			
Office Action Summary			xaminer	Art Unit				
		E	Frick Glass	2837				
Period fo	The MAILING DATE of this commu or Reply	nication appea	rs on the cover shee	t with the correspondenc	e address			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLUTION OF THE INSIGN OF THE INSI	MAILING DAT s of 37 CFR 1.136(a munication. tatutory period will a y will, by statute, ca	E OF THIS COMMU a). In no event, however, ma apply and will expire SIX (6) use the application to become	JNICATION. By a reply be timely filed MONTHS from the mailing date of BY ABANDONED (35 U.S.C. § 133	this communication.			
Status								
1)	Responsive to communication(s) file	ed on 10 April	2008					
,	•	<u>-</u>	ction is non-final.					
3)		/—		natters prosecution as to	n the merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·	ioo arraor Ex p	sarte Quayre, 1000	3.2. 11, 100 3.3. 210.				
· ·	on of Claims							
	☑ Claim(s) <u>1-7</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) 1,2,5 and 6 is/are rejected							
7)🛛	Claim(s) 3,4 and 7 is/are objected to	0.						
8)□	Claim(s) are subject to restri	ction and/or e	lection requirement.					
Applicati	on Papers							
9)□	The specification is objected to by the	ne Examiner.						
-	The drawing(s) filed on is/are		ted or b)□ objected	to by the Examiner.				
<i>,</i> —	Applicant may not request that any obje		· · · · · · · ·		a).			
	Replacement drawing sheet(s) including		- , ,	•	•			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
	See the attached detailed Office action	-		not received.				
Attachmen 1) Notice			A) 🖂 Intonii	ow Summary (PTO 412)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:								

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bastholm et al (6,509,705) in view Weimer et al (5,982,156).

With respect to claim 1, 5, and 6, Bastholm et al. discloses a drive unit for an actuator that drives a movable member (including an article of furniture) (col. 1, lines 3-9) comprising a dc motor having a rotor consisting of a plurality of coils connected to a commutator in connection with a set of brushes (col. 1, lines 3-5; inherent that a dc motor has a rotor with coils and a commutator that contacts brushes); a transmission that uses the motor to drive an adjustment means that adjusts an adjustable element (col. 4, lines 62-65); a power supply that supplies power to the drive unit, where the power supply comprises a transformer having a primary side connected to an ac source (col. 1, lines 6-7), and a secondary side having a recitification and smoothing means for connection to the dc motor (col. 1, lines 7-9); the drive unit comprises a first control to compensate for loss in the motor, thereby keeping the motor at a constant speed (cols. 3/4, lines 58-67/1-13; current feedback reduces power loss and keeps motor speed constant; and the drive unit also comprises a second control that removes voltage ripple, also keeping the motor at a constant speed (col. 3, lines 35-45; tapping current reduces voltage ripple; reduced power loss means the motor can stay at a constant

speed), and including an astable timer having a duty cycle which is controlled by output voltage and adjusted by input voltage.

Page 3

Basthom et al. does not disclose the second period of time being shorter in duration than said first period of time, and including an astable timer having a duty cycle which is controlled by output voltage and adjusted by input voltage.

Weimer et al discloses a control circuit that provides the same control wherein the second period of time being shorter in duration than said first period of time. With respect to figure 2, the first period relating to the inductor and transistor (L and 214) varies according to the voltage, while the second stage relates to the capacitor being shorter in length, and including an astable timer having a duty cycle (columns 11/12, lines 20-67/1-49); which is controlled by output voltage and adjusted by input voltage. It is commonly know in the art that the first period relating to the inductor and transistor of a boost circuit has a longer period than the second period relating to the capacitor.

With respect to claim 2, Bastholm et al. does not disclose the forward and power steps as claimed.

Weimer discloses a converter that uses forward step where the duty cycle is expressed in terms of a constant and. the input voltage (cols. 11/12, lines 20-67/1-49; Vref is the constant and V1 is the input voltage; therefore, arranging equation 4 around gets the relationship; a power step where the output voltage is expressed by the input voltage and the duty cycle (equation 5); and the forward step and the power step result in the output voltage being equal to the constant (equations 6 and 1 allow the output

voltage to equal the constant Vreg. The motivation to implement the forward and power steps is to reduce the effects of transients (cols. 3/4, lines 66-67/1-3).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to implement the converter of Weimer et al. into the Bastholm et al. circuit, thereby providing the advantage of reducing transients, as taught by Weimer et al.

Allowable Subject Matter

Claims 3 and 4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The examiner respectfully withdraws the 35 U.S.C. 132 (a) objection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick Glass whose telephone number is (571)272-8395. The examiner can normally be reached on 9-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on 571-272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/511,728 Page 5

Art Unit: 2837

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EG
/Lincoln Donovan/
Supervisory Patent Examiner, Art Unit 2837